## CLAIMS

1. An electronic key system for a vehicle which includes a control apparatus (14) mounted on an actual vehicle (100A) and an electronic key (12) for transmitting a response signal (Sa) in response to receiving of a request signal (Sr) transmitted from said control apparatus (14) through a transmitting antenna (72), characterized in that said transmitting antenna (72) is installed in the

proximity of the center of said actual vehicle (100A).

2. An electronic key system for a vehicle according to claim 1, characterized in that

said transmitting antenna (72) is installed at a position within a range from an upper portion to a lower portion within a range from a point at one fourth to another point at three fourths of a wheel base (154) with reference to the center (150a) of a front wheel (150) of said actual vehicle (100A).

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3. An electronic key system for a vehicle according to claim 1, characterized in that

where said actual vehicle (100A) includes a seat (140) on which a user is to be seated.

said transmitting antenna (72) is installed in the proximity of a front portion of said seat (140).

4. An electronic key system for a vehicle which includes a control apparatus (14) mounted on an actual vehicle (100B) and an electronic key (12) for transmitting a response signal (Sa) in response to receiving of a request signal (Sr) transmitted from said control apparatus (14) through a transmitting antenna (72), characterized in that

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said actual vehicle (100B) includes a seat (140) provided for opening and closing movement for being seated by a user and a locking apparatus (64) for locking said seat (140) so as not to be opened until unlocking instruction is supplied thereto; that

said control apparatus (14) includes means for verifying the response signal (Sa) and outputting an unlocking instruction to said locking apparatus (64) when it is discriminated that the response signal (Sa) is a request from a legal user; and that

said transmitting antenna (72) is installed on said seat (140) or in the proximity of said seat (140).

- 5. An electronic key system for a vehicle according to claim 4, characterized in that said transmitting antenna (72) is provided on a left side face of said seat (140).
- 6. An electronic key system for a vehicle according to claim 4, characterized in that

where at least a seat handle (144) which is used to open or close said seat (140) by manual operation is

provided around a rear portion of said seat (140),

said transmitting antenna (72) is installed on said seat handle (144).